

Linear Guides for Heavy Load

Normal Clearance

Linear Guides for Heavy Load – Normal Clearance

	Type		L Dimensions	Material Hardness
	1 Block	2 Blocks		
	Standard Grade	Standard Grade		
Standard	C-SXR	C-SX2R	Selectable	Rails / Blocks: Carbon Steel 58–62 HRC min.
	C-SXRL	C-SX2RL	Configurable	
Block Wide	C-SXWT	C-SX2WT	Selectable	
	C-SXWTL	C-SX2WTL	Configurable	

Heat Resistant Temperature: -20–80°C

ⓘ For L Configurable, G dimensions differ from those shown in the table below. For details, see P.608.

Precautions for Use

- ⓘ This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing. For how to handle the blocks, see P.602.
- ⓘ Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
- ⓘ Thick grooves are provided on the datum planes of blocks and rails. Be sure to match the datum planes when using.
- ⓘ Rails cannot be connected end to end.
- ⓘ The accuracy of Linear Guides is guaranteed after mounting the rail (after fastening screws on the rail and pushing it onto the datum plane).
- ⓘ Minor bending of the rail will be adjusted after being mounted and will not affect the performance

Others

- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For installation and maintenance of Linear Guides, see P.606.

Part Number			H	L	Block Dimensions												Guide Rail Dimensions							
Type		W			L ₁	B	C	S x ℓ	L ₂	K	T	Cb	Grease Fittings			H ₁	W ₁	W ₂	Ca	Counterbored Holes	F	G		
1 Block	2 Blocks												Mounting Holes	E	T ₁					d ₁ x d ₂ x h				
Standard	C-SXR C-SXRL	C-SX2R C-SX2RL	24	100-1480 (160)	34	55.9	26	26	M4x5	39.5	20.8	6.2	0.5	M4x0.7	7	5.5	13	15	9.5	0.5	4.5x7.5x6	60	20	
			28	100-1960 (160)	42	66.7	32	32	M5x5	46.7	23.4	7.2	0.5	M6x1	14	4.5	16.5	20	11	0.5	6x9.5x8.5	60	20	
			33	100-1960 (220)	48	80	35	35	M6x6	59	27.2	8.15	1	M6x1	14	4.5	20	23	12.5	0.9	7x11x9	60	20	
			42	120-1960 (280)	60	95.3	40	40	M8x8	69.3	35	8.5	1	M6x1	14	8	23	28	16	1	9x14x12	80	20	
Wide Block	C-SXWT C-SXWTL	C-SX2WT C-SX2WTL	24	100-1480 (160)	52	55.9	41	26	M5x7	39.5	20.8	7	—	M4x0.7	7	5.5	13	15	18.5	0.5	4.5x7.5x6	60	20	
			28	100-1960 (160)	59	66.7	49	32	M6x9	46.7	23.4	9	—	M6x1	14	4.5	16.5	20	19.5	0.5	6x9.5x8.5	60	20	
			33	100-1960 (220)	73	80	60	35	M8x10	59	27.2	10	—	M6x1	14	4.5	20	23	25	0.9	7x11x9	60	20	

ⓘ L Dimension: Dimensions in () are for the minimum rail length of the 2-Block Type.

Part Number Example

Part Number

C-SXR28

C-SXWT28

-

L

- 880

- 880

Linear Guides for Heavy Load

Normal Clearance, continued

Part Number Alterations

Part Number

C-SXR28

-

L

- (B3)

-

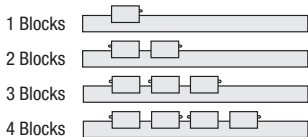
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- B3

Alterations	Code	Specifications
3-Block Specifications	B3	Add 2 Blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SXR24-400-B3
4-Block Specifications	B4	Add 3 Blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SXR24-400-B4

Position of Grease Fitting

(Reference plane on the front side)

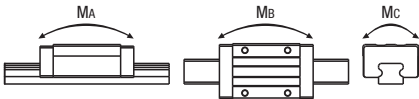


Selectable Shortest Rail Length

H	B3 (3-Block)	B4 (4-Block)
24	340	400
28	400	460
33	440	520
42	440	520

kgf=Nx0.101972

H	Basic Load Rating		Allowable Static Moment			Mass		
	C (Dynamic) kN	C0 kN	MA N·m	Mb N·m	Mc N·m	Block kg		Guide Rails kg/m
						Standard	Wide	
24	4.9	9.7	48.4	48.4	75.7	0.13	0.17	1.32
28	7.7	14.1	81.9	81.9	150.4	0.18	0.24	2.28
33	10.6	19.7	141.2	141.2	240.8	0.3	0.44	3.17
42	15.5	28.1	239.9	239.9	414.8	0.77	—	4.54

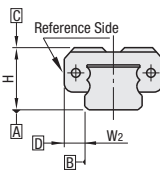


Preload & Accuracy Standards

Interchangeable, Light Preload Type

Radial Clearance (μm)	
H24	-4--+4
H28	-5--+5
H33	-6--+6
H42	-7--+7

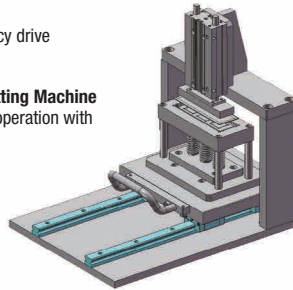
Dimension Precision (μm)	
Height H Tolerance	±120
Variation of Height H	40
Width W ₂ Tolerance	±120
Variation of Width W ₂	40
Running Parallelism of Plane C against Plane A	Refer to P.602
Running Parallelism of Plane D against Plane B	



Application Example

- Medium-accuracy positioning
- Medium/low load
- Used for medium-to-low frequency drive

Manual Press Fitting Machine
Used for manual operation with low frequency



Air Cylinder Drive Section
Used for medium-accuracy positioning

